JOURNAL OF ORGANOMETALLIC CHEMISTRY VOLUME 466, NUMBERS 1–2, FEBRUARY 22, 1994

Contents

Regular Papers

Regio- and stereoselective synthesis for a novel class of organoaluminium compounds — substituted aluminacyclopentanes and aluminacyclopentenes assisted by zirconium catalysts
U.M. Dzhemilev and A.G. Ibragimov (Bashkortostan, Russian Federation) (Rec'd May 18, 1993) 1

Intramolekular stabilisierte Galla- und Indacyclohexane, -cyclopentane und -cyclopentene; Röntgenstrukturanalyse von $(CH_2)_5Ga(CH_2)_3NMe_2$, $(CH_2)_5GaCH_2CHCH_3CH_2NMe_2$ und $(C_6F_5)_2In(CH_2)_3NMe_2$
H. Schumann, O. Just, T.D. Seuß, F.H. Görlitz und R. Weimann (Berlin, Deutschland) (Eing. den 7. Juni 1993) 5

Sila-biperiden und *endo*-Sila-biperiden: Synthesen, Kristallstrukturen und antimuscarinische Eigenschaften
R. Tacke, J. Pikies, F. Wiesenberger (Karlsruhe, Deutschland), L. Ernst, D. Schomburg (Braunschweig, Deutschland), M. Waelbroeck, J. Christophe (Bruxelles, Belgique), G. Lambrecht, J. Gross und E. Mutschler (Frankfurt, Deutschland) (Eing. den 10. Mai 1993) 15

Laser-induced decomposition of 1,1-dichloro-1-silacyclobutane for gas-phase deposition of reactive solid polycarbosilane
M. Jakoubková, R. Fajgar (Prague, Czech Republic), J. Tláskal (Řež near Prague, Czech Republic) and J. Pola (Prague, Czech Republic) (Rec'd April 4, 1993) 29

Preparation of the iodides $(Me_3Si)_2C(SiMe_2C_6H_4Y)(SiMe_2I)$ and some related compounds
C. Eaborn, K.L. Jones and P.D. Lickiss (Brighton, UK) (Rec'd June 8, 1993) 35

Siloxane bond formation by heterofunctional condensation of alkoxysilane and halogenosilane. Application to the preparation of copoly(tetramethyl-*p*-silphenylenesiloxane-dimethylsiloxane)
R.J.P. Corriu, D. Leclercq, P.H. Mutin, H. Samson and A. Vioux (Montpellier, France) (Rec'd March 15, 1993) 43

The crystal and molecular structure of tribenzylsilanol by Rietveld refinement of powder X-ray diffraction data
P. Lightfoot, C. Glidewell and P.G. Bruce (St. Andrews, UK) (Rec'd June 21, 1993) 51

Chemical and photochemical approaches to amino(aryl)silylenes
R. Corriu, G. Lanneau, C. Priou, F. Soulairol (Montpellier, France), N. Auner, R. Probst (Garching, Germany), R. Conlin and C. Tan (Denton, TX, USA) (Rec'd April 15, 1993) 55

Synthesis and spectroscopic studies (Mössbauer, IR and NMR) of $[R_2SnCl_2bipym]$ (R = butyl or phenyl) and the crystal and molecular structure of $[Ph_2SnCl_2bipym]$
F. Caruso, M. Giomini (Roma, Italy), A.M. Giuliani and E. Rivarola (Palermo, Italy) (Rec'd July 2, 1993) 69

2,2-Functionally disubstituted organotin compounds: synthesis and reactivity
F. Richter and H. Weichmann (Halle/Saale, Germany) (Rec'd May 20, 1993) 77

Side-chain metallation of diethyl phosphonotoluenes
A. Boumekouez, E. About-Jaudet and N. Collignon (Mont-Saint-Aignan, France) (Rec'd April 16, 1993) 89

Studies on organolanthanide complexes. XLVII. Syntheses of bis(2-methoxyethylcyclopentadienyl)lanthanide tetrahydroborates (Ln = La, Pr, Nd, Sm or Gd); Crystal structures of bis(2-methoxyethylcyclopentadienyl) praseodymium and neodymium tetrahydroborates
D. Deng, X. Zheng, C. Qian, J. Sun and L. Zhang (Shanghai, People's Republic of China) (Rec'd April 21, 1993; in rev'd form June 30, 1993) 95

Studies on organolanthanide complexes. LIV. Syntheses and X-ray crystal structures of bis-(2-methoxyethylcyclopentadienyl) rare earth iodides $(MeOCH_2CH_2C_5H_4)_2LnI$ (Ln = La or Y)
C. Qian, X. Zheng, B. Wang, D. Deng and J. Sun (Shanghai, People's Republic of China) (Rec'd April 28, 1993; in rev'd form June 30, 1993) 101

Tetramethylphospholyluranium complexes and their pentamethylcyclopentadienyl analogues
P. Gradoz, D. Baudry, M. Ephritikhine, M. Lance, M. Nierlich and J. Vigner (Gif sur Yvette, France) (Rec'd April 7, 1993) 107

Synthesis and characterization of thiolate derivatives of bis(trimethylsilylcyclopentadienyl)titanium(IV). The crystal and molecular structure of $[(\eta^5\text{-}C_5H_4SiMe_3)_2Ti(SC_6F_5)_2]$
E. Delgado, E. Hernández, A. Hedayat, J. Tornero and R. Torres (Madrid, Spain) (Rec'd May 12, 1993) 119

The reluctant titanium-catalyzed cyclotrimerization of 1-phenyl-2-(trimethylsilyl)acetylene. Crystal structure of 1,3,5-triphenyl-2,4,6-tris(trimethylsilyl)benzene
R. Klein (Amsterdam, Netherlands), G. Schmid, U. Thewalt (Ulm, Germany), P. Sedmera, V. Hanuš and K. Mach (Prague, Czech Republic) (Rec'd May 17, 1993) 125

Spectroscopic and theoretical evidence for a strong electron-donor effect of the oxo ligand in chlorodicyclopentadienyloxoniobium(V) complexes
A. Perjéssy, P. Ertl, N. Prónayová (Bratislava, Slovak Republic), B. Gautheron and R. Broussier (Dijon, France) (Rec'd February 19, 1993) 133

The synthesis and reactions with neutral monodentate ligands of the seven-coordinate complex $[MoCl(GeCl_3)(CO)_3(NCMe)_2]$
P.K. Baker and D. ap Kendrick (Bangor, UK) (Rec'd May 14, 1993) 139

Seven-coordinate molybdenum–tin complexes containing phosphorodithioato and phosphoniodithioformate. X-Ray structure of $[Mo(CO)_2\{S_2P(OEt)_2\}(S_2CPCy_3)(SnPhCl_2)] \cdot CH_2Cl_2$
G. Barrado, D. Miguel, J.A. Pérez-Martínez, V. Riera and S. García-Granda (Oviedo, Spain) (Rec'd June 16, 1993) 147

Synthesis and structural characterization of an unusual η^3-ligated 1,3-diphosphacyclobutadiene molybdenum complex via cyclodimerization of a phosphaalkyne. Crystal structure of $[Mo(\eta^5\text{-}C_9H_7)(CO)_2\{P\text{-}\eta^3\text{-}(^tBu)CPC(^tBu)PFBF_3\}]$
P.B. Hitchcock, M.J. Maah, J.F. Nixon (Brighton, UK) and M. Green (Bath, UK) (Rec'd March 25, 1993) 153

Indium(III) thiolate-bridged molybdenocene complexes: crystal structure of $[InCl_2\{MoCp_2(\mu\text{-}SEt)_2\}_2][BPh_4]\cdot(CH_3)_2CO$
M.A.A.F. De C.T. Carrondo (Oeiras, Lisboa, Portugal), A.R. Dias, M. Helena Garcia (Lisboa, Portugal), P. Matias (Oeiras, Lisboa, Portugal), M. Fátima M. Piedade and M.J. Villa de Brito (Lisboa, Portugal) (Rec'd March 19, 1993) 159

Metallorganische Lewis-Säuren. LI. Reaktivität der metallorganischen Lewis-Säuren $(OC)_4Re(OEt_2)FBF_3$ und $(OC)_2(PPh_3)_2Ru(FBF_3)_2$
E. Lippmann, R. Krämer und W. Beck (München, Deutschland) (Eingegangen den 17. Juni 1993) 167

Synthesis and reactivity of bis(alkyloxalyl) and alkoxycarbonyl alkyloxalyl iron complexes $[Fe(COCO_2R)_2(CO)_4]$ and $[Fe(CO_2R)(COCO_2R')(CO)_4]$ (R, R' = Me or Et): evidence for reductive elimination of oxalate
P. Laurent, J.-Y. Salaün, G. Le Gall, M. Sellin and H. Des Abbayes (Brest, France) (Rec'd March 21, 1993) 175

The reaction of iron pentacarbonyl with 6-aminofulvenes: some organic chemistry of *R,S* and *R,R/R,S*-$[Fe_2\{\eta,\eta\text{-}C_5H_4CH(NMe_2)CH(NMe_2)C_5H_4\}(CO)_2(\mu\text{-}CO)_2]$
B. Callan, M.G. Cox, A. McCabe, A.R. Manning, P. Sayal, P. Soye, S.C. Wade (Dublin, Ireland), F.S. Stephens (North Ryde, Australia), P. McArdle and D. Cunningham (Galway, Ireland) (Rec'd April 22, 1993) 185

The preparation of bis(η^3-allyl)iron(II) complexes and their reactions with 1,3-dienes
B. Gabor, S. Holle, P.W. Jolly and R. Mynott (Mülheim an der Ruhr, Germany) (Rec'd May 13, 1993) 201

Ruthenium carbonyl cluster complexes with nitrogen ligands. III. Reaction of $Ru_3(\mu\text{-}AuPPh_3)(\mu\text{-}Cl)(CO)_{10}$ with pyridine; crystal structures of $Ru_3(\mu\text{-}H)(\mu\text{-}NC_5H_4)(CO)_9(PPh_3)$, $Ru_3(\mu\text{-}Cl)_2(CO)_8(NC_5H_5)(PPh_3)$ and $Ru_3(\mu\text{-}Cl)_2(CO)_8(NC_5H_5)_2$
M.P. Cifuentes, M.G. Humphrey (Armidale, N.S.W., Australia), B.W. Skelton and A.H. White (Nedlands, W.A., Australia) (Rec'd May 19, 1993) 211

Preparation and resolution of chiral areneruthenium(II) complexes
P. Pertici, E. Pitzalis, F. Marchetti, C. Rosini, P. Salvadori (Pisa, Italy) and M.A. Bennett (Canberra, A.C.T., Australia) (Rec'd May 26, 1993) 221

Formation of nitriles by a novel metathesis reaction of ruthenium σ-acetylide complexes, (η^5-indenyl)Ru(η^1-C≡CR)(phosphine)$_2$, with nitric oxide
T. Tanase, H. Mochizuki, R. Sato and Y. Yamamoto (Chiba, Japan) (Rec'd May 26, 1993; in rev'd form July 7, 1993) 233

Synthese und Koordinationsverhalten von Di(1-phenyl-ethinyl)-Sulfan
M. Herres, O. Walter, H. Lang (Heidelberg, Deutschland), R. Hosch und J. Hahn (Köln, Deutschland) (Eing. den 9. Juni 1993) 237

New anion receptors based on cobalticinium–aza crown ether derivatives
P.D. Beer and A.R. Graydon (Oxford, UK) (Rec'd May 14, 1993) 241

Reactions of $[IrH_2(Me_2CO)(Hpz)(PPh_3)_2]BF_4$ with alkynes: synthesis of new hydride–vinyl iridium(III) complexes
M.A. Esteruelas, M.P. García, M. Martín (Zaragoza, Spain), O. Nürnberg (Würzburg, Germany), L.A. Oro (Zaragoza, Spain) and H. Werner (Würzburg, Germany) (Rec'd April 14, 1993) 249

Iridium complexes of 2-(2'-thienyl)pyridine
F. Neve, M. Ghedini and A. Crispini (Arcavacata, Italy) (Rec'd June 1, 1993) 259

Selective hetero- and carbo-cycle syntheses via masked cyclopalladated secondary amine and ketone functions
F. Maassarani, M. Pfeffer, J. Spencer and E. Wehman (Strasbourg, France) (Rec'd February 24, 1993) 265

New aspects of the carbonylation of allylpalladium complexes
R. Bertani, G. Cavinato, G. Facchin (Padova, Italy), L. Toniolo and A. Vavasori (Venezia, Italy) (Rec'd April 14, 1993) 273

Isolation and characterization of the acyl complexes *trans*-$[Pt(PPh_3)_2(COR)Cl]$ (R = ^{n}Bu or ^{s}Bu) and their relevance to the hydroformylation of linear butenes catalyzed by platinum/tin/triphenylphosphine catalytic systems. Molecular structure of *cis*-$[Pt(PPh_3)_2Cl(SnCl_3)]$
G. Cavinato (Padova, Italy), G. De Munno (Arcavacata di Rende, Italy), M. Lami, M. Marchionna (Via Maritano, Italy), L. Toniolo (Venezia, Italy) and D. Viterbo (Torino, Italy) (Rec'd March 30, 1993) 277

Synthesis and characterization of the complexes of trimethylplatinum(IV) iodide with some ditellurides and ditelluroethers: the crystal structure of $[(PtIMe_3)_2(p\text{-}MeOC_6H_4Te)_2]$
H.B. Singh, A. Regini V (Bombay, India), J.P. Jasinski, E.S. Paight (Keene, NH, USA) and R.J. Butcher (Washington, DC, USA) (Rec'd April 4, 1993) 283

Characterization of mono(carbene) and bis(carbene) complexes of gold(I) derived from lithiated pyridine
H.G. Raubenheimer, J.G. Toerien, G.J. Kruger, R. Otte, W. Van Zyl and P. Olivier (Johannesburg, South Africa) (Rec'd June 17, 1993) 291

Preliminary Communication

$[(CH_3C)_4N\text{–}(CH_3)_2Al\cdots Cl\cdots Al(CH_3)_2\text{–}N(CCH_3)_4]Li$ – ein ungewöhnlicher Sandwich-Komplex des Lithiums
H.-D. Hausen, J. Tödtmann und J. Weidlein (Stuttgart, Deutschland) (Eing. den 4. Oktober 1993) C1

Use of ozone as an oxygen atom transfer agent in the synthesis of pentamethylcyclopentadienyl rhenium trioxide
K.P. Gable and T.N. Phan (Corvallis, OR, USA) (Rec'd August 16, 1993) C5

Book Reviews C7

Author Index C9

Subject Index C11